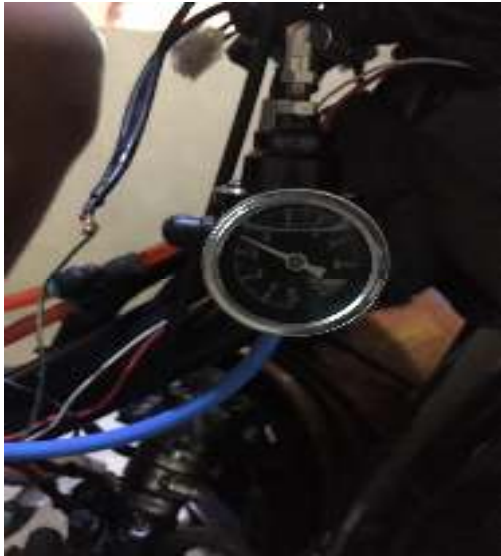


LAMPIRAN



Tabel rata-rata bahan bakar pertamax

Standart Torsi					3,5 kg/cm² Torsi					3,7 kg/cm² Torsi					4 kg/cm² Torsi				
RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata
4250	6,38	6,22	7,10	6,57	4250	5,9	6,60	5,55	6,02	4250	6,85	6,72	4,30	5,96	4250	7,21	7,14	7,15	7,17
4500	7,54	7,19	7,51	7,85	4500	7,45	6,87	7,40	7,24	4500	7,08	7,01	4,50	6,20	4500	7,41	7,52	7,52	7,83
4750	7,54	7,70	7,53	7,59	4750	7,14	7,65	7,15	7,31	4750	7,31	7,85	5,20	6,79	4750	7,39	7,63	7,84	7,69
5000	7,21	7,24	8,03	7,49	5000	7,13	7,24	7,08	7,15	5000	7,87	7,38	5,20	6,82	5000	7,83	7,62	7,47	7,64
5250	7,11	7,18	7,57	7,29	5250	7,06	7,10	7,02	7,06	5250	7,27	7,27	5,30	6,61	5250	7,28	6,23	7,23	6,91
5500	7,21	7,28	7,55	7,35	5500	7,01	7,13	7,02	7,05	5500	7,2	7,16	5,50	6,62	5500	7,17	7,16	7,14	7,16
5750	7,23	7,20	7,55	7,33	5750	7,02	7,03	7,13	7,06	5750	7,23	7,17	5,80	6,73	5750	7,1	7,17	7,18	7,15
6000	7,14	7,19	7,41	7,25	6000	7,11	7,11	7,00	7,07	6000	7,15	7,16	6,00	6,77	6000	7,18	7,13	7,13	7,14
6250	7,13	7,14	7,35	7,23	6250	6,96	6,99	6,93	6,96	6250	7,17	7,07	6,20	6,81	6250	7,08	7,05	7,08	7,07
6500	6,99	7,09	7,27	7,12	6500	7,02	7,00	6,95	6,98	6500	6,96	7,05	6,30	6,76	6500	6,75	6,73	6,19	6,56
6750	7,04	6,93	7,10	7,02	6750	6,89	6,90	6,85	6,88	6750	6,26	6,37	5,80	6,14	6750	4,41	4,40	5,81	4,90
7000	6,90	6,85	7,13	6,98	7000	5,66	6,00	6,20	5,95	7000	5,95	3,42	4,30	3,89	7000	2,08	3,77	4,77	3,54
7250	7,10	7,15	7,21	7,15	7250	6,55	6,61	6,56	6,57	7250	5,52	6,14	6,70	6,12	7250	5,84	6,51	6,08	6,14
7500	7,11	7,12	7,28	7,17	7500	6,81	6,76	6,75	6,77	7500	6,79	6,81	7,30	6,98	7500	6,74	6,75	6,57	6,69
7750	7,02	7,05	7,09	7,05	7750	6,39	6,65	6,64	6,63	7750	6,44	6,26	6,42	6,37	7750	6,23	6,15	6,17	6,18
8000	6,90	6,92	6,95	6,92	8000	6,42	6,48	6,43	6,44	8000	5,66	5,89	5,96	5,84	8000	5,54	5,33	5,55	5,47

Standart Daya					3,5 kg/cm² Daya					3,7 kg/cm² Daya					4 kg/cm² Daya				
RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata
4250	3,9	3,8	4,6	4,1	4250	3,5	4,1	3,3	3,6	4250	4,5	4,3	4,3	4,4	4250	4,8	4,7	4,6	4,7
4500	4,7	4,5	4,8	4,7	4500	4,7	4,3	4,7	4,6	4500	4,7	4,5	4,5	4,6	4500	4,9	4,8	4,7	4,8
4750	5	5,1	5	5,0	4750	4,8	5,1	4,8	4,9	4750	4,9	5,2	5,2	5,1	4750	5,1	5,1	5,2	5,1
5000	5,1	5,1	5,7	5,3	5000	5	5,1	5	5,0	5000	5,5	5,2	5,2	5,3	5000	5,5	5,3	5,3	5,4
5250	5,3	5,3	5,6	5,4	5250	5,2	5,2	5,2	5,2	5250	5,4	5,4	5,3	5,4	5250	5,4	5,3	5,4	5,4
5500	5,6	5,6	5,8	5,7	5500	5,4	5,3	5,4	5,4	5500	5,6	5,5	5,5	5,5	5500	5,5	5,5	5,5	5,5
5750	5,9	5,8	6,1	5,9	5750	5,7	5,7	5,8	5,7	5750	5,8	5,8	5,8	5,8	5750	5,8	5,8	5,8	5,8
6000	6	6,1	6,3	6,1	6000	6	6	5,9	6,0	6000	6	6	6	6,0	6000	6,1	6	6	6,0
6250	6,3	6,3	6,5	6,4	6250	6,1	6,1	6,1	6,1	6250	6,3	6,2	6,2	6,2	6250	6,2	6,2	6,2	6,2
6500	6,4	6,5	6,7	6,5	6500	6,4	6,4	6,4	6,4	6500	6,4	6,4	6,3	6,4	6500	6,2	6,2	5,7	6,0
6750	6,7	6,6	6,8	6,7	6750	6,5	6,6	6,5	6,5	6750	6	6,1	5,8	6,0	6750	4,2	4,3	5,5	4,7
7000	6,8	6,8	7,1	6,9	7000	5,6	5,9	6,1	5,9	7000	3,9	3,4	4,3	3,9	7000	2	3,7	4,7	3,5
7250	7,3	7,3	7,4	7,3	7250	6,7	6,8	6,7	6,7	7250	5,6	6,3	6,7	6,2	7250	6	6,7	7,2	6,6
7500	7,5	7,5	7,7	7,6	7500	7,2	7,1	7,1	7,1	7500	7,2	7,2	7,2	7,2	7500	7,1	7,1	7	7,1
7750	7,7	7,7	7,7	7,7	7750	7,2	7,3	7,2	7,2	7750	7,1	6,9	7	7,0	7750	6,8	6,7	6,8	6,8
8000	7,8	7,8	7,9	7,8	8000	7,2	7,3	7,3	7,3	8000	6,4	6,7	6,7	6,6	8000	6,3	6	6,3	6,2

Tabel rata-rata bahan bakar ethanol 96%

Standart Torsi					3,5 kg/cm ² Torsi					3,7 kg/cm ² Torsi					4 kg/cm ² Torsi				
RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata
4250	5,89	4,75	6,78	5,81	4250	7,33	8,05	7,54	7,65	4250	6,21	6,64	6,27	6,37	4250	6,3	4,35	6,34	5,66
4500	7,65	7,41	7,47	7,51	4500	7,53	8,03	7,79	7,78	4500	6,87	7,04	6,64	6,85	4500	7,24	7,34	6,31	6,83
4750	7,7	7,62	7,64	7,65	4750	7,7	7,66	7,65	7,67	4750	7,58	7,45	7,33	7,45	4750	7,31	7,32	6,37	7,00
5000	7,67	7,55	7,53	7,58	5000	7,56	7,63	7,39	7,53	5000	7,51	7,50	7,36	7,46	5000	7,29	7,35	7,37	7,34
5250	7,66	7,54	7,57	7,61	5250	7,76	7,89	7,64	7,78	5250	7,45	7,47	7,44	7,46	5250	7,35	7,31	7,45	7,37
5500	7,65	7,74	7,65	7,68	5500	7,78	7,90	7,69	7,79	5500	7,53	7,52	7,55	7,53	5500	7,49	7,37	7,48	7,45
5750	7,69	7,70	7,66	7,68	5750	7,7	7,75	7,77	7,74	5750	7,44	7,54	7,57	7,52	5750	7,44	7,26	7,38	7,36
6000	7,64	7,73	7,54	7,64	6000	7,7	7,74	7,65	7,70	6000	7,42	7,55	7,55	7,51	6000	7,37	7,32	7,43	7,37
6250	7,62	7,72	7,44	7,59	6250	7,73	7,73	7,70	7,72	6250	7,42	7,50	7,52	7,48	6250	7,4	7,46	7,47	7,44
6500	7,59	7,42	7,53	7,51	6500	7,62	7,75	7,64	7,67	6500	7,38	7,44	7,46	7,43	6500	7,37	7,41	7,47	7,42
6750	7,5	7,36	7,42	7,43	6750	7,58	7,64	7,60	7,61	6750	7,41	7,38	7,41	7,40	6750	7,36	7,40	7,42	7,39
7000	7,4	7,34	7,35	7,37	7000	7,38	7,59	7,54	7,50	7000	7,46	7,44	7,34	7,41	7000	7,4	7,25	7,41	7,35
7250	7,35	7,32	7,35	7,34	7250	7,5	7,57	7,53	7,53	7250	7,42	7,32	7,39	7,38	7250	7,48	7,40	7,41	7,43
7500	7,28	7,28	7,35	7,30	7500	7,39	7,41	7,42	7,41	7500	7,31	7,35	7,32	7,33	7500	7,36	7,38	7,41	7,38
7750	7,19	7,12	7,11	7,14	7750	7,36	7,30	7,22	7,29	7750	7,23	7,21	7,31	7,25	7750	7,22	7,24	7,28	7,25
8000	7,07	6,98	7,03	7,01	8000	7,09	7,23	7,16	7,16	8000	7,07	7,14	7,13	7,11	8000	7,15	7,13	7,13	7,14

Standart Daya					3,5 kg/cm ² Daya					3,7 kg/cm ² Daya					4 kg/cm ² Daya				
RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata	RPM	Test 1	Test 2	Test 3	Rata-Rata
4250	3,3	2,8	4,2	3,5	4250	4,6	4,8	4,7	4,7	4250	3,9	4,1	4,0	4,0	4250	3,8	2,6	3,9	3,4
4500	4,3	4,7	4,7	4,7	4500	4,8	5,0	4,9	4,9	4500	4,4	4,4	4,3	4,4	4500	4,6	4,5	4,5	4,5
4750	5,1	5,1	5,1	5,1	4750	5,1	5,1	5,1	5,1	4750	5,1	5,0	4,9	5,0	4750	4,9	4,9	4,9	4,9
5000	5,4	5,3	5,3	5,3	5000	5,3	5,4	5,2	5,3	5000	5,3	5,3	5,2	5,3	5000	5,1	5,2	5,2	5,2
5250	5,7	5,6	5,6	5,6	5250	5,7	5,8	5,6	5,7	5250	5,5	5,5	5,5	5,5	5250	5,4	5,4	5,5	5,4
5500	5,9	6	5,9	5,9	5500	6	6,1	6	6,0	5500	5,8	5,8	5,8	5,8	5500	5,8	5,7	5,8	5,8
5750	6,2	6,2	6,2	6,2	5750	6,2	6,3	6,3	6,3	5750	6	6,1	6,1	6,1	5750	6	5,9	6,0	6,0
6000	6,4	6,3	6,4	6,4	6000	6,3	6,5	6,4	6,5	6000	6,3	6,4	6,4	6,4	6000	6,2	6,2	6,3	6,2
6250	6,7	6,8	6,5	6,7	6250	6,3	6,8	6,8	6,8	6250	6,5	6,6	6,6	6,6	6250	6,5	6,6	6,6	6,6
6500	6,9	6,8	6,9	6,9	6500	7	7,1	7	7,0	6500	6,8	6,8	6,8	6,8	6500	6,7	6,8	6,7	6,7
6750	7,1	7	7	7,0	6750	7,2	7,3	7,2	7,2	6750	7,1	7,0	7,1	7,1	6750	7	7,0	7,1	7,0
7000	7,3	7,3	7,3	7,3	7000	7,3	7,5	7,4	7,4	7000	7,4	7,3	7,3	7,3	7000	7,3	7,1	7,3	7,2
7250	7,3	7,3	7,3	7,3	7250	7,7	7,7	7,7	7,7	7250	7,6	7,5	7,5	7,5	7250	7,6	7,6	7,5	7,6
7500	7,7	7,7	7,8	7,7	7500	7,8	7,9	7,9	7,9	7500	7,7	7,8	7,7	7,7	7500	7,8	7,8	7,8	7,8
7750	7,9	7,8	7,8	7,8	7750	8	8,0	7,9	8,0	7750	7,9	7,9	8,0	7,9	7750	7,9	7,9	8,0	7,9
8000	8	7,9	7,9	7,9	8000	8	8,2	8,1	8,1	8000	8	8,1	8,0	8,0	8000	8,1	8,0	8,0	8,0

Gambar *mapping fuel correction* pada ecu juken

FILE DATA 1 - BASE MAP					
	6500	6750	7000	7250	7500
100%	9.28	9.72	9.72	9.72	9.92



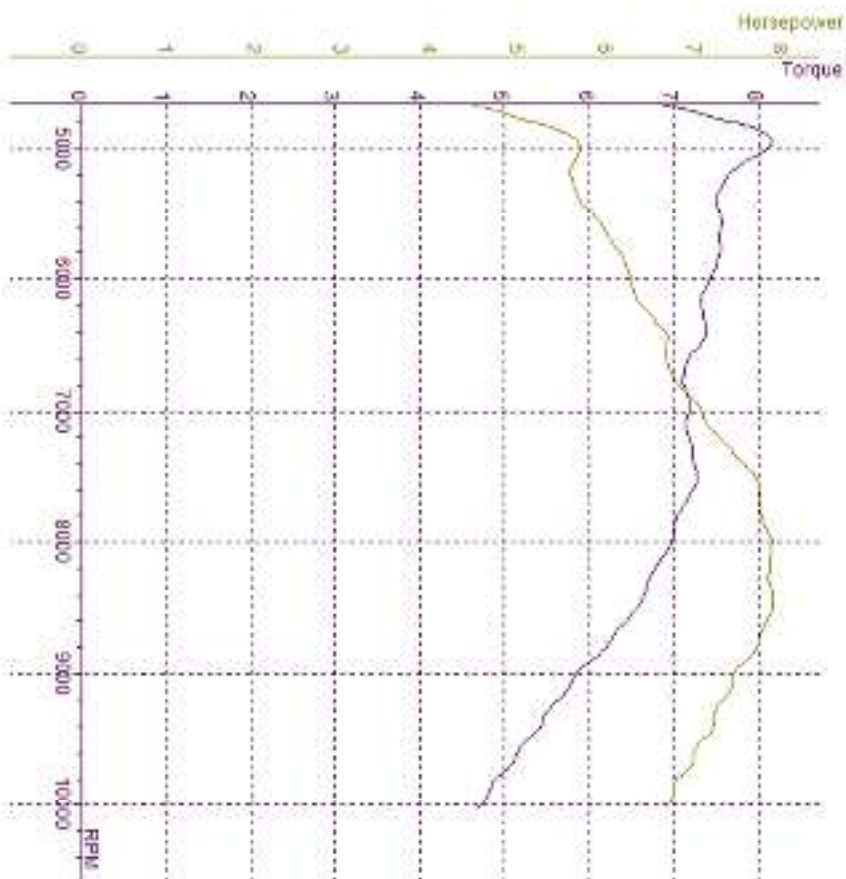


Engine & Motor Vehicle Control Systems
 25, Riverside Station, Riverside, Queensland, Australia
 Email: info@gttech.com.au

SPORTRINO V3.3
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.446

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HIVEN GRAND STD FI T012 | MAX POWER: 8.17 (8.17) 4540 | MAX TORQUE: 28.5 °C | Humidity: 84 % | Pressure: 1000.0 mbar | KMH: 73.4 | Date/Time: 28.12.2020 10:34:15



DATA FOR TEST HIVEN GRAND STD FI T012

RPM	HP	Q/M	N/M	Q/M	N/M	T
4250	4.5	7.31	0.52			
4500	4.8	7.31	0.54			
4750	5.0	7.35	0.56			
4940	5.7	8.17	0.66			
5000	5.7	8.08	0.72			
5150	5.6	7.97	0.86			
5500	5.8	7.55	1.00			
5750	6.1	7.55	1.14			
6000	6.3	7.41	1.30			
6250	6.5	7.36	1.46			
6500	6.7	7.27	1.60			
6750	6.8	7.10	1.76			
7000	7.1	7.18	1.90			
7250	7.4	7.21	2.05			
7500	7.7	7.18	2.22			
7750	7.7	7.09	2.36			
8000	7.9	6.95	2.54			
8250	7.8	6.71	2.70			
8438	7.9	6.62	2.82			
8500	7.8	6.53	2.83			
8750	7.7	6.23	3.05			
9000	7.4	5.83	3.24			
9250	7.2	5.50	3.46			
9500	7.1	5.26	3.66			
9750	6.9	4.98	3.83			
10000	6.7	4.72	4.12			

LOSSES: 0.0 HP 0.03%
 TOTAL ENGINE: 7.9HP 8.17%
 8.17%
 8.17%

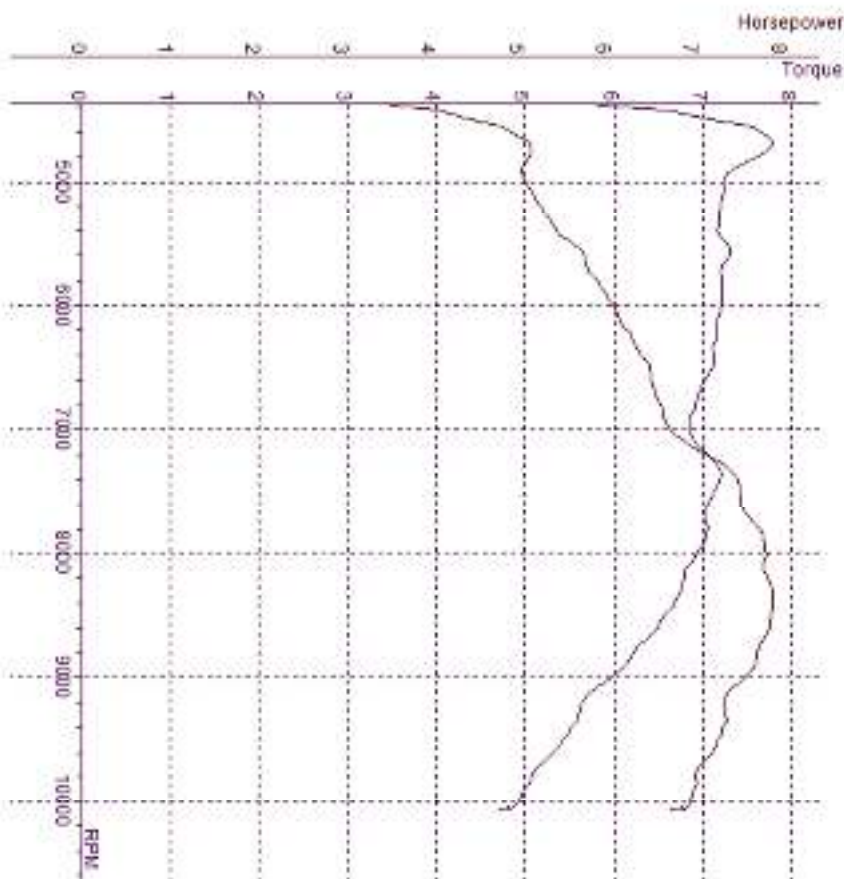


Engine & Motor Vehicle Testing Equipment
 25, Riverside Rd, Riverside, Victoria 3045
 Australia, Tel: 03 9400 1111, Fax: 03 9400 1112

SPORTRINO V3.3
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T016 | MAX POWER: 7.79 (7.79) 4602 | Temp: °C: 28.5 | Humidity: %: 84 | Pressure: 1000.0 mbar | KMH: 73.5 | Date/Time: 28.12.2020 10:35:02



DATA FOR TEST: HILLEN GRAND STD FI T016

RPM	HP	Q/MQ	N/M	Q/MQ	T
4250	3.8	6.22	0.53		
4500	4.5	7.10	0.58		
4692	5.1	7.79	0.70		
4750	5.1	7.70	0.74		
5000	5.1	7.24	0.90		
5150	5.3	7.18	1.04		
5500	5.6	7.28	1.20		
5750	5.8	7.20	1.34		
6000	6.1	7.10	1.52		
6250	6.3	7.14	1.66		
6500	6.5	7.09	1.82		
6750	6.6	6.98	1.96		
7000	6.8	6.86	2.14		
7250	7.1	7.15	2.28		
7500	7.3	7.12	2.44		
7750	7.7	7.05	2.60		
8000	7.8	6.92	2.76		
8250	7.9	6.75	2.94		
8372	7.9	6.69	3.00		
8500	7.9	6.55	3.10		
8750	7.7	6.24	3.28		
9000	7.5	5.89	3.48		
9250	7.3	5.62	3.66		
9500	7.3	5.42	3.86		
9750	7.0	5.09	4.10		
10000	6.9	4.90	4.34		

LOSSES: 0.0 HP 0.02% Q/MQ
 TOTAL ENGINE: 7.9 HP 7.78% Q/MQ



Displacement Correction
Correction Factor: 100.153
NOTE: Load Cell Installed



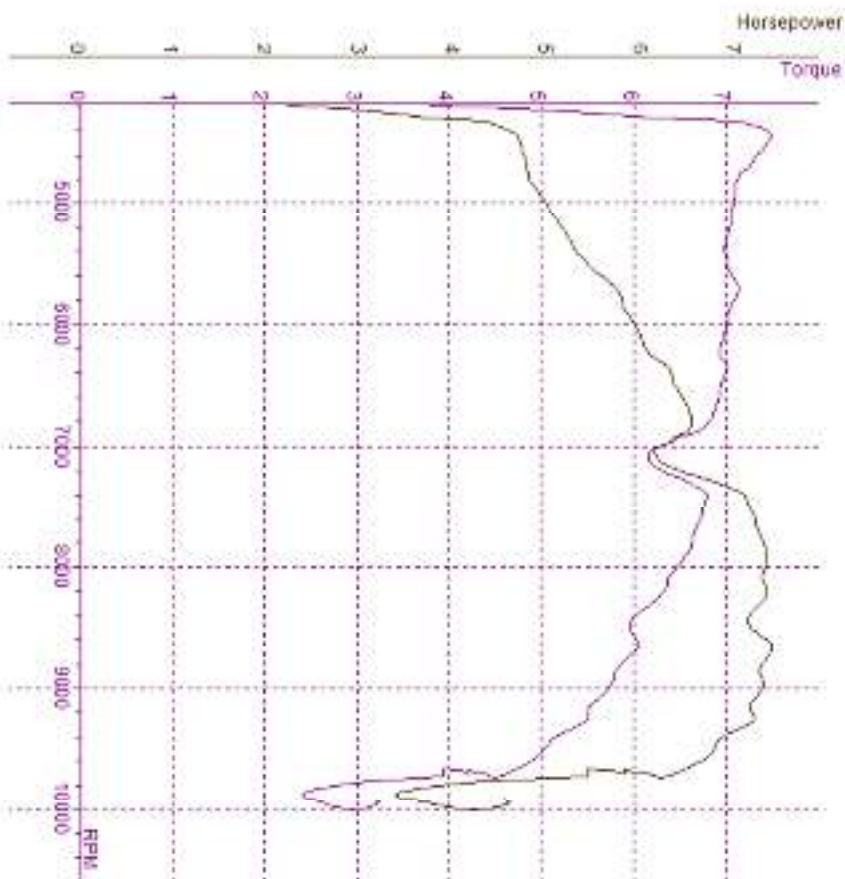
Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Birmingham, B37 7YU
 Tel: 0121 717 8854 Fax: 0121 717 8855
 Email: sales@mtitech.co.uk Website: www.mtitech.co.uk

SPORTIVO V1.1
 DYNAMOMETER: 80513
 ROLLER INERTIA: 1.446

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Lead Cal. Included

TEST NAME: HISEN GRAND STD FI T017 | MAX POWER: 7.56 (7.50) kW | Temp. °C: 29.2 | Humidity %: 83 | Pressure: 1000.0 mbar | KMH: 73.2 | Date/Time: 28.12.2020 10:43:07

DATA FOR TEST: HISEN GRAND STD FI T017



Comments:
 PERMANENT 3.5 kg/cm

RPM	HP	HP COR	CV-MIN	T
4250	4.49	4.7	7.80	6.54
4500	4.7	4.7	7.40	6.72
4750	4.8	4.8	7.15	6.86
5000	5.0	5.0	7.08	7.02
5250	5.2	5.2	7.02	7.18
5500	5.4	5.4	7.02	7.34
5750	5.8	5.8	7.18	7.48
6000	5.9	5.9	7.00	7.66
6250	6.1	6.1	6.93	7.80
6500	6.4	6.4	6.93	7.98
6750	6.1	6.1	6.85	8.12
7000	6.1	6.1	6.20	8.32
7250	6.7	6.7	6.56	8.48
7500	7.1	7.1	6.75	8.64
7750	7.2	7.2	6.86	8.80
8000	7.2	7.2	6.43	9.00
8250	7.3	7.3	6.17	9.16
8500	7.1	7.1	5.96	9.34
8750	7.4	7.4	6.03	9.46
9000	7.3	7.3	5.90	9.54
9250	7.2	7.2	5.49	9.94
9500	6.7	6.7	4.99	10.20
9750	4.3	4.3	3.12	10.76
10000	4.2	4.2	2.96	10.94

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.4 HP



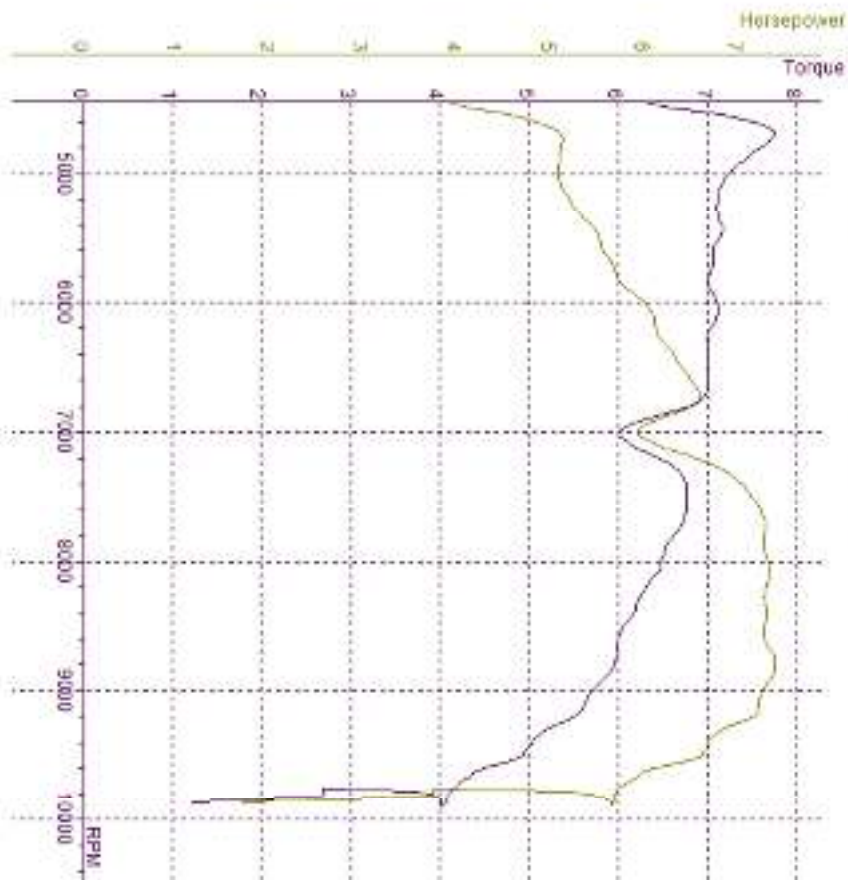
Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Hemel Hempstead, Herts, SG9 6ND
 Tel: 01438 750000 Fax: 01438 750001
 Email: sales@mt-tech.co.uk Website: www.mt-tech.co.uk

SPORTIVO V1.1
 DYNAMOMETER 80015
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T018
 MAX POWER: 4700 W
 MAX TORQUE: 7.76 (7.56) 4703
 Temp. °C: 29.2
 Humidity %: 83
 Pressure: 1000.0 mbar
 KMH: 72.5
 Date/Time: 28.12.2020 10:43:20

DATA FOR TEST: HILLEN GRAND STD FI T018



Comments:
 PERMANENT 3.5 kg/cm

RPM	HP	HP @ 1000	HP @ 2000	T
4250	4.1	6.60	0.52	
4500	4.3	6.87	0.54	
4750	4.70	7.76	0.66	
5000	5.1	7.65	0.70	
5250	5.1	7.24	0.84	
5500	5.2	7.10	1.00	
5750	5.2	7.13	1.16	
6000	5.7	7.08	1.32	
6250	6.0	7.11	1.48	
6500	6.1	6.99	1.62	
6750	6.4	7.00	1.78	
7000	6.6	6.90	1.96	
7250	6.8	6.80	2.14	
7500	6.8	6.61	2.30	
7750	7.1	6.76	2.46	
8000	7.1	6.63	2.61	
8250	7.3	6.48	2.80	
8500	7.3	6.25	2.98	
8750	7.4	6.04	3.18	
9000	7.4	5.97	3.36	
9250	7.4	5.96	3.53	
9500	7.2	5.68	3.66	
9750	6.5	5.28	3.78	
10000	5.7	4.85	4.04	
10250	5.7	4.13	4.30	

LOSSES:
 TOTAL ENGINE: 0.0 HP
 7.4 HP 7.637934 HP



Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Birmingham, B37 7YU
 Tel: 0121 717 1000 Fax: 0121 717 1001
 Email: sales@mt-tech.co.uk Website: www.mt-tech.co.uk

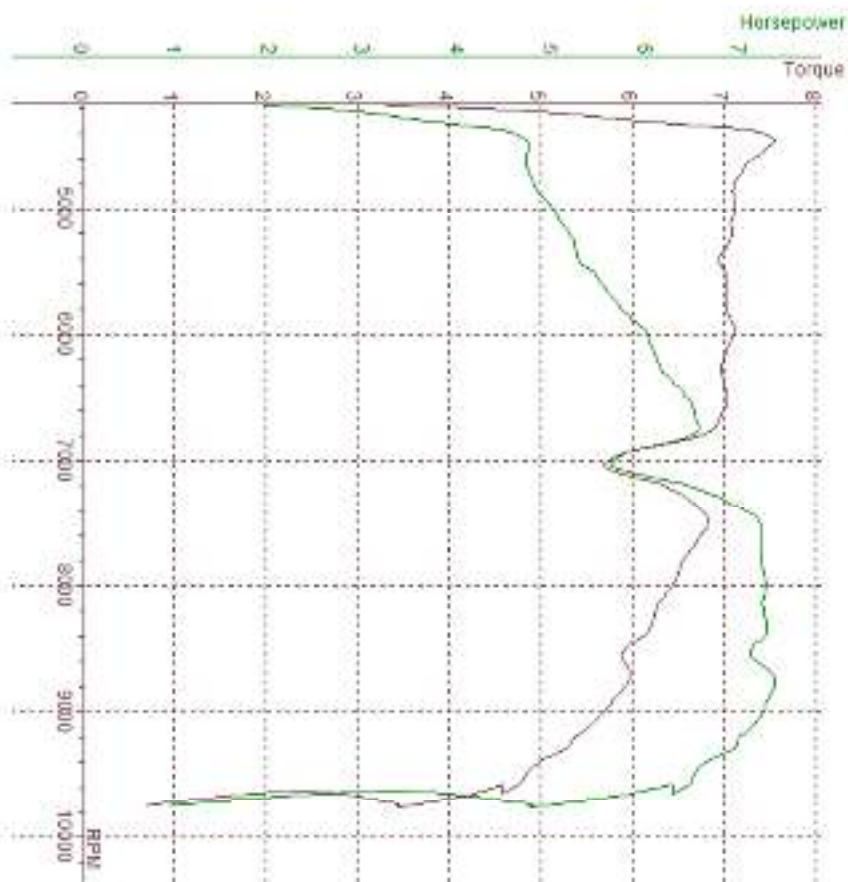
SPORTIVO V3.3
 DYNAMOMETER: 80513
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T030
 MAX POWER: 74.67 kW 102.50 HP
 MAX TORQUE: 7.55 (7.55) mNm
 Temp. °C: 29.2 °C
 Humidity %: 83 %
 Pressure: 1000.0 mbar
 KMH: 71.6
 Date/Time: 28.12.2020 10:43:45

DATA FOR TEST: HILLEN GRAND STD FI T030

Comments:
 PERMANENT 3.5 kg/m



RPM	HP	HP (COR)	HP (COR) (kW)	T
4250	3.5	5.90	6.56	
4500	4.7	7.46	8.08	
4750	4.8	7.14	7.86	
5000	5.0	7.12	7.84	
5250	5.2	7.06	7.78	
5500	5.4	7.01	7.72	
5750	5.7	7.02	7.73	
6000	6.0	7.11	7.84	
6250	6.1	6.96	7.64	
6500	6.4	7.02	7.73	
6750	6.5	6.89	7.58	
7000	6.6	6.86	7.55	
7250	6.7	6.55	7.22	
7500	7.2	6.81	7.50	
7750	7.2	6.59	7.26	
8000	7.2	6.42	7.05	
8250	7.2	6.22	6.84	
8500	7.1	5.91	6.51	
8750	7.4	5.84	6.45	
9000	7.4	5.84	6.45	
9250	6.9	5.28	5.91	
9500	6.5	4.82	5.31	
9750	4.8	3.44	3.86	

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.4 HP



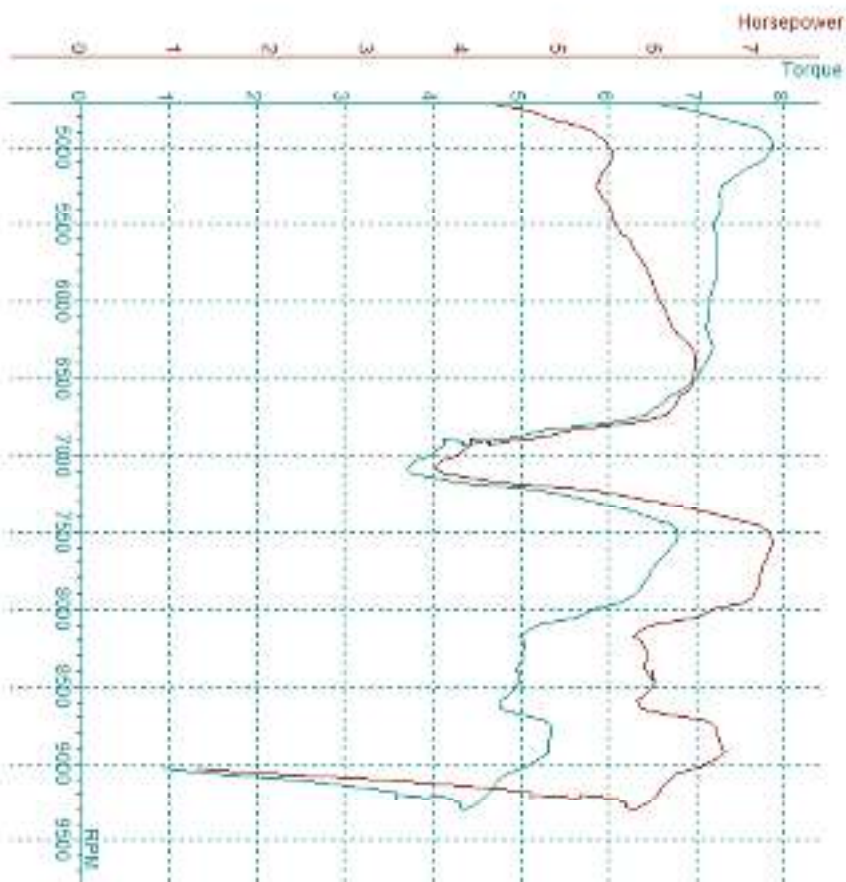
Engine & Motor Vehicle Testing Equipment
 25 Orchard Side Road, Singapore 670823
 Tel: 6754 1111, Fax: 6754 1112, Email: info@mtitech.com.sg

SPORTRINO V1.1
 DYNAMOMETER: 80513
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HINEN GRAND STD FI T034 | MAX POWER: 72.17217566 | MAX TORQUE: 7.5767574835 | Temp. °C: 29.8 | Humidity %: 81.5 | Pressure: 1000.0 mbar | KMH: 68.0 | Date/Time: 28.12.2020 10:46:19

DATA FOR TEST HINEN GRAND STD FI T034



Comments:
 PERMANENT 3.7 Kg/cm

RPM	HP	DRQ	CV	MPD	T
4250	4.3	6.85	0.52		
4500	4.7	7.08	0.54		
4750	4.9	7.31	0.56		
5000	5.5	7.87	0.66		
5250	5.4	7.27	0.84		
5500	5.6	7.20	1.00		
5750	5.8	7.18	1.14		
6000	6.0	7.15	1.30		
6250	6.3	7.17	1.46		
6500	6.4	6.96	1.62		
6750	6.0	6.26	1.82		
7000	3.9	3.95	2.24		
7250	5.6	5.52	2.40		
7500	7.1	6.79	2.56		
7566	7.2	6.77	2.60		
7750	7.1	6.44	2.75		
8000	6.4	5.66	3.00		
8250	5.9	5.05	3.20		
8500	5.9	4.94	3.28		
8750	6.5	5.34	3.78		
9000	6.5	5.07	4.02		
9250	5.9	4.49	4.28		

LOSSES: 0.0 HP 0.02% MPD
 TOTAL ENGINE: 7.2HP 7.87% MPD

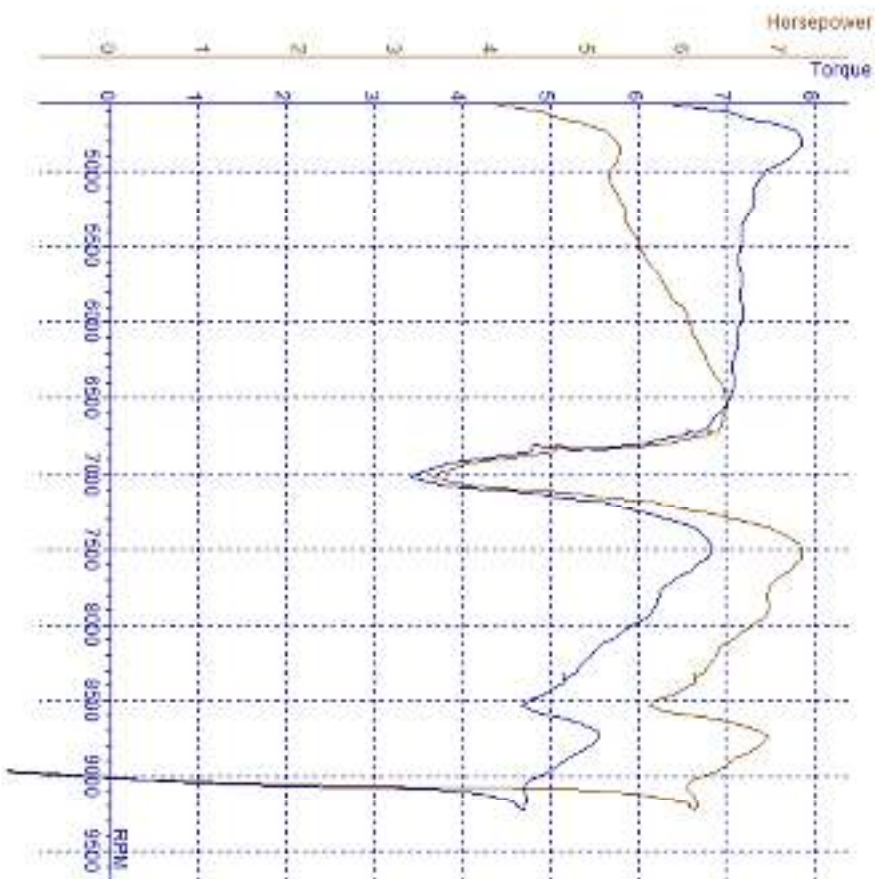


SPORTIVO V.J.
DYNAMOMETER: 80555
ROLLER INK: 1.445

Displacement Correction
Correction Factor ISO 1585
NOTE: Load Cell Included

Date/Time
28/12/2020 10:46:32

DATA FOR TEST NUMBER GRAND STD IN 1015



REV	HP @ 6000	CRANK-MIN	T
4250	4.3	6.72	0.53
4300	4.5	7.01	0.54
4350	5.2	7.35	0.64
4350	5.3	7.36	0.66
5000	5.3	7.38	0.80
5250	5.4	7.17	0.94
5500	5.5	7.16	1.10
5750	5.8	7.17	1.24
6000	6.0	7.16	1.40
6250	6.2	7.07	1.56
6500	6.4	7.03	1.72
6750	6.1	6.97	2.02
7000	3.4	3.42	2.40
7250	6.3	6.14	1.56
7400	7.12	6.84	2.72
7500	7.2	6.81	2.74
7750	6.9	6.16	2.92
8000	6.7	5.80	3.12
8250	6.3	5.36	3.52
8500	5.6	4.89	3.72
8750	6.8	5.54	3.92
9000	6.1	4.81	4.16



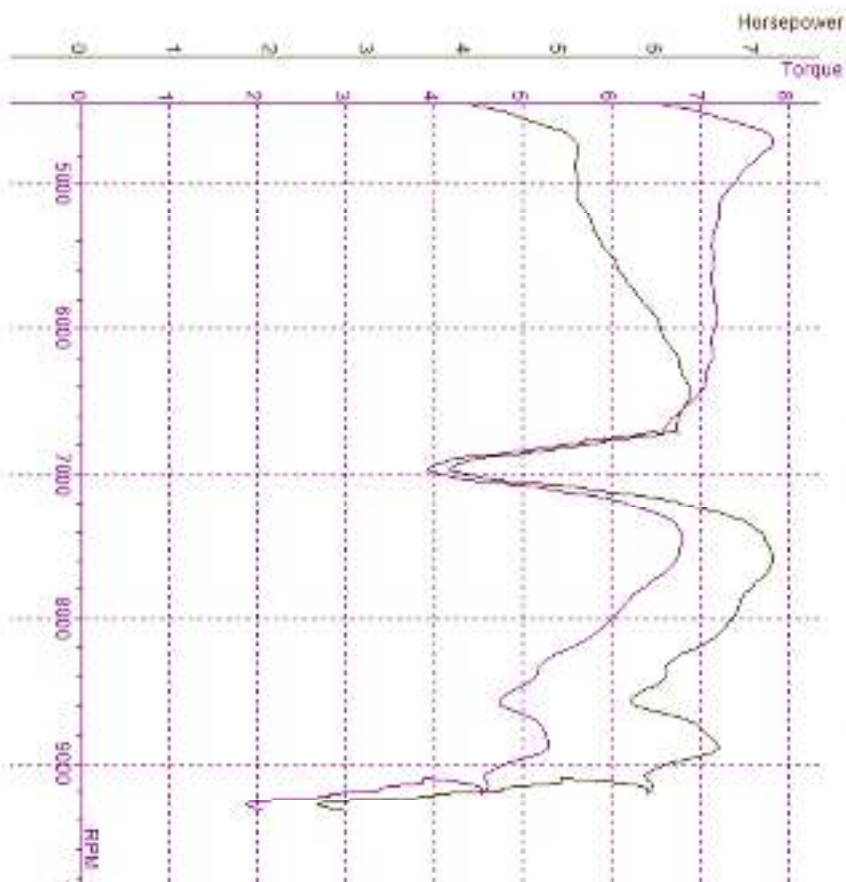
Engine & Motorcycle Exhaust Systems
 All Road Legal Exhausts, Headers, Catalytic Converters, Sound Attenuators,
 Mufflers, Y-pipe Exhausts, Intakes etc.

SPORTIVO V3.3
 DYNAMOMETER: 80513
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HUSKY GRAND STD FI T036 | MAX POWER: 7.82 (7.82) 4013 | MAX TORQUE: 7.82 (7.82) 4013 | Temp. °C: 29.8 | Humidity %: 81 % | Pressure: 1000.0 mbar | 68.2 | Date/Time: 28.12.2020 10:46:44

DATA FOR TEST: HUSKY GRAND STD FI T036



Comments:
 PERMANENT 3.7 kg/cm

RPM	HP	HP@COR	HP@COR	T
4250	4.3	4.3	6.84	0.52
4500	4.5	4.5	7.07	0.54
4750	4.7	4.7	7.82	0.66
5000	5.2	5.2	7.14	0.70
5250	5.3	5.3	7.36	0.84
5500	5.3	5.3	7.20	1.00
5750	5.8	5.8	7.15	1.16
6000	6.0	6.0	7.16	1.32
6250	6.2	6.2	7.10	1.46
6500	6.3	6.3	7.09	1.62
6750	6.8	6.8	6.88	1.78
7000	4.3	4.3	6.08	2.16
7250	6.7	6.7	4.35	2.40
7500	7.2	7.2	6.52	2.56
7750	7.8	7.8	6.77	2.72
8000	7.0	7.0	6.75	2.78
8250	6.7	6.7	6.42	2.90
8500	6.3	6.3	5.96	3.10
8750	6.5	6.5	5.27	3.52
9000	6.1	6.1	4.83	3.54
9250	2.6	2.6	5.12	3.74
9500	2.1	2.1	4.79	3.98
9750	2.0	2.0	4.80	4.20

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.82 HP



JPI/TECH
 2500 West 10th Street, Suite 100
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 Phone: (918) 436-1000
 Fax: (918) 436-1001
 Email: info@jpi-tech.com

SPORTIVO V1.1
 DYNAMOMETER 80015
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

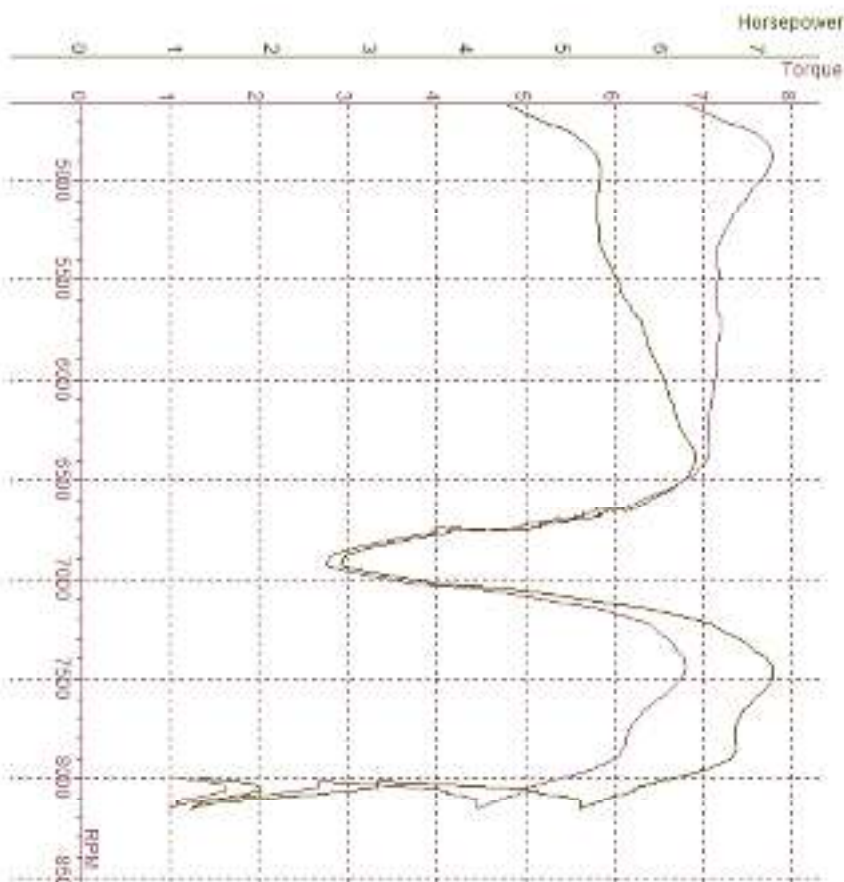
TEST NAME: HILTI GRAND STD FI T038
 MAX POWER: 71.0711 7467
 MAX TORQUE: 7.7711 7707 7488
 Temp. °C: 29.8
 Humidity %: 81
 Pressure: 1000.0 mbar
 KMH: 59.7
 Date/Time: 28.12.2020 10:47:55

DATA FOR TEST HILTI GRAND STD FI T038

Comments:
 PERMANENT 4 Kpm

RPM	HP	HP COR	CV-MPM	T
4000	4.5	6.07	0.50	
4250	4.7	7.16	0.54	
4500	4.8	7.32	0.56	
4750	5.1	7.63	0.60	
5000	5.3	7.79	0.66	
5250	5.2	7.62	0.74	
5500	5.3	7.13	0.90	
5750	5.5	7.16	1.06	
6000	5.8	7.17	1.22	
6250	6.0	7.13	1.36	
6500	6.2	7.05	1.52	
6750	6.2	6.75	1.70	
7000	6.3	6.49	1.96	
7250	6.7	6.11	2.36	
7500	7.1	6.18	2.95	
7750	6.7	6.75	3.18	
8000	6.0	6.15	3.40	

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.1 HP
 0.00% PM
 7.70% PM



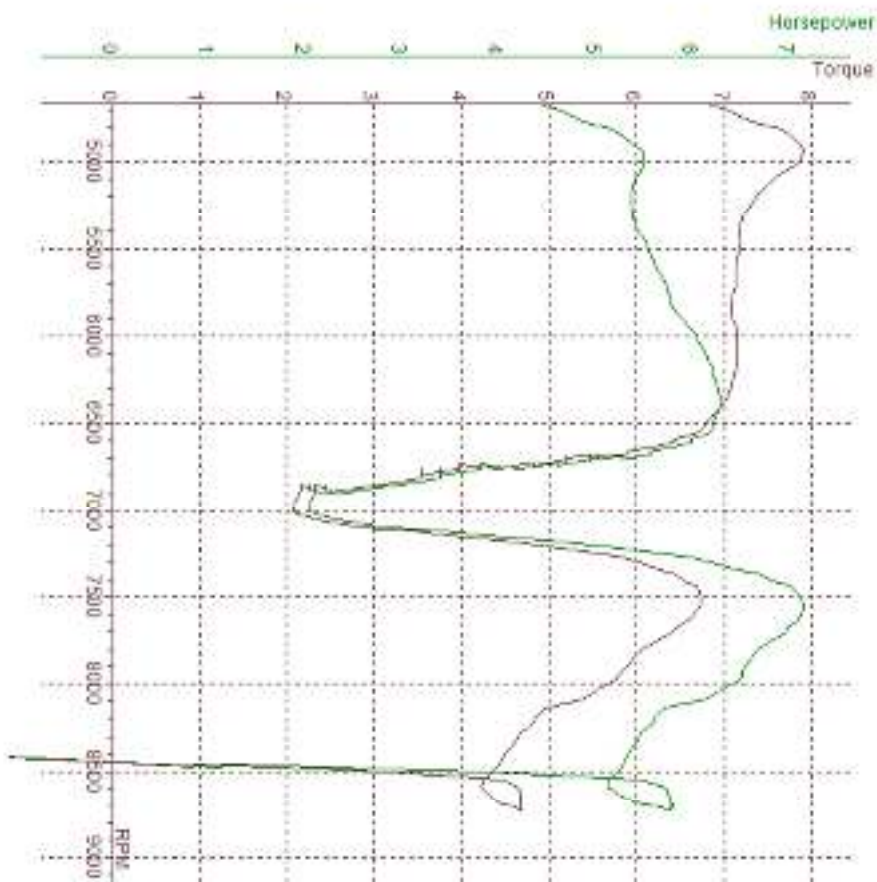


SPORTIVO V3.3
DYNAMOMETER: 80525
ROLLER INKTA: 1.445

Displacement Correction
Correction Factor ISO 1585
NOTE: Load Cell Included.

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KSH	Date/Time
HTEN GRABD STD FT T039	71.5320 / 7542	7.911209 / 4024	29.8 °C	81 %	1000.0 mbar	63.8	28.12.2020 10:48:06

DATA FOR TEST WHEN GRAND STD FIT TO 19



Comments:		PERFORMANCE @ 4 Kgm	
RPM	HP @RPM	Q _{max} @RPM	T
4000	4.5	7.02	0.51
4250	4.8	7.21	0.54
4500	4.9	7.41	0.56
4750	5.1	7.59	0.58
4954	5.3	7.91	0.66
5000	5.5	7.83	0.70
5250	5.4	7.18	0.68
5500	5.5	7.17	1.01
5750	5.8	7.10	1.18
6000	6.1	7.16	1.24
6250	6.2	7.08	1.48
6500	6.2	6.75	1.66
6750	4.2	4.41	2.24
7000	2.0	2.08	2.10
7250	6.0	5.84	3.28
7500	7.1	6.14	3.44
7541	7.1	6.73	3.46
7750	6.8	6.23	3.62
8000	6.3	5.54	3.88
8250	5.5	4.68	4.12
8500	5.2	4.33	4.38



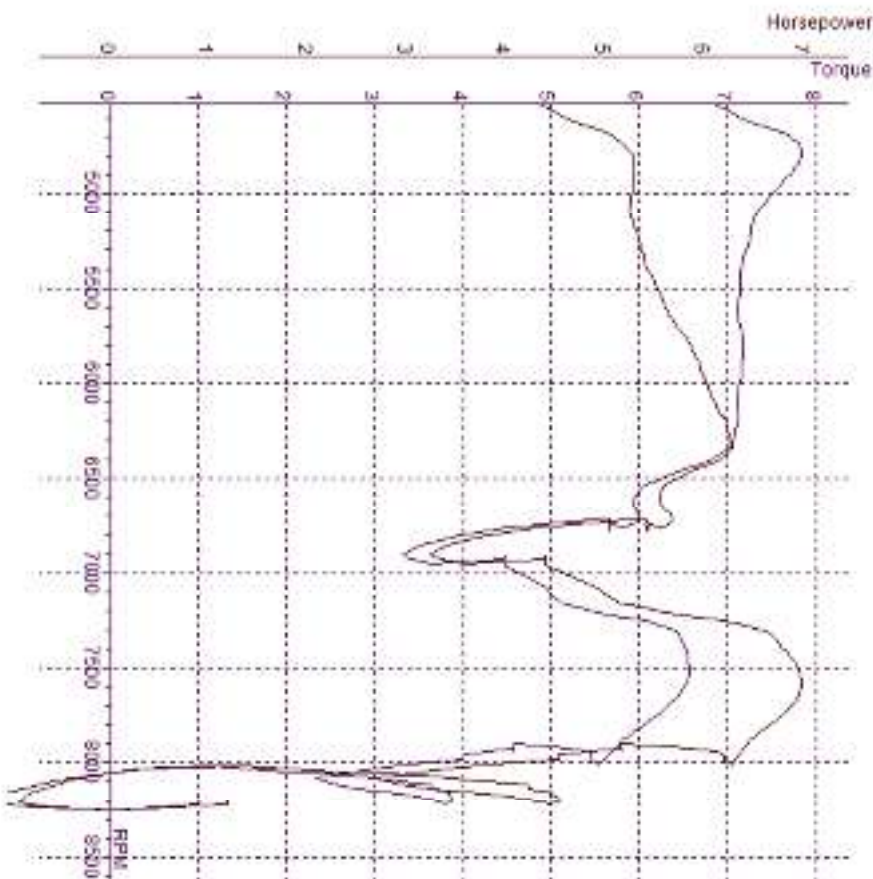
Engine & Motorcycle Exhaust Systems
 All Related Fabrication, Maintenance, Customization, Remanufacture,
 Repair, Modification, Installation

SPORTIVO V3.1
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T041
 MAX POWER: 710 (7.8) / 7578
 MAX TORQUE: 7.85 (8.55) / 4793
 Temp. °C: 29.8
 Humidity %: 81
 Pressure: 1000.0 mbar
 KMH: 60.3
 Date/Time: 28.12.2020 10:48:27

DATA FOR TEST: HILLEN GRAND STD FI T041



Comments:
 PERMANENT 4 Kgm

RPM	HP	HP COR	CV-MPM	T
4000	4.5	7.00	0.50	
4250	4.6	7.15	0.54	
4500	4.7	7.32	0.56	
4750	5.2	7.84	0.64	
5000	5.3	7.86	0.66	
5250	5.2	7.47	0.80	
5500	5.4	7.15	0.96	
5750	5.5	7.14	1.10	
6000	5.8	7.18	1.26	
6250	6.0	7.13	1.42	
6500	6.2	7.08	1.58	
6750	5.7	6.19	1.76	
7000	5.5	5.81	1.93	
7250	4.7	4.77	1.96	
7500	6.2	6.08	3.10	
7750	7.0	6.17	3.28	
8000	7.8	6.53	3.52	
8250	6.8	6.17	3.46	
8500	6.3	5.55	3.68	
8750	0.1	0.06	5.18	

LOSSES:
 TOTAL ENGINE: -0.8 HP
 7.8 HP
 8.2 HP



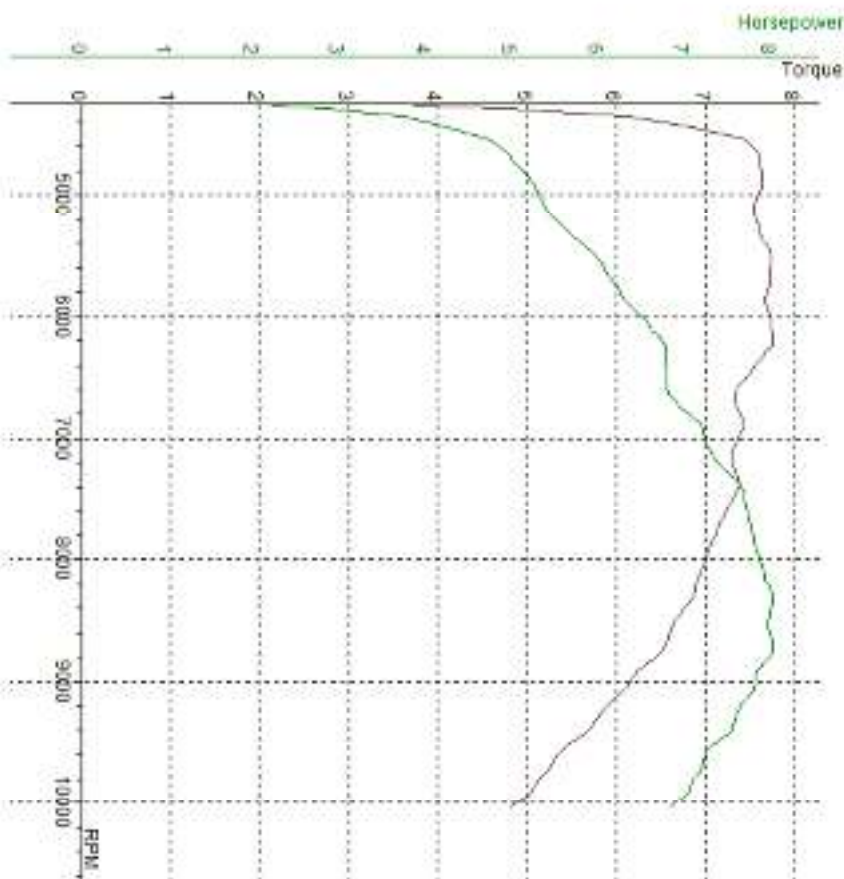
Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Hemel Hempstead, Herts, SG9 6ND
 Tel: 01494 471111 Fax: 01494 471112

SPORIDINO V3.1
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HISEN GRAND STD FI T079 | MAX POWER: 80.03 bhp | 5970 | MAX TORQUE: 7.74 (7.56) b104 | Temp: 30.8 °C | Humidity: 78 % | Pressure: 1000.0 mbar | KMH: 73.5 | Date/Time: 28.12.2020 11:25:51

DATA FOR TEST: HISEN GRAND STD FI T079



Comments:
 STD / ETHANOL

RPM	HP	HP @ 0.0% MAF	HP @ 0.0% MAF	T
4250	2.8	4.75	0.52	
4500	4.7	7.41	0.66	
4750	5.1	7.62	0.80	
5000	5.3	7.58	0.94	
5250	5.6	7.59	1.08	
5500	6.0	7.74	1.22	
5750	6.2	7.70	1.38	
6000	6.5	7.73	1.52	
6194	6.7	7.76	1.62	
6250	6.8	7.72	1.66	
6500	6.8	7.42	1.82	
6750	7.0	7.36	1.96	
7000	7.2	7.34	2.12	
7250	7.5	7.32	2.26	
7500	7.7	7.28	2.42	
7750	7.8	7.12	2.58	
8000	7.8	6.98	2.74	
8250	8.0	6.88	2.90	
8500	8.0	6.83	3.08	
8701	8.0	6.55	3.20	
8750	8.0	6.49	3.24	
9000	7.8	6.14	3.44	
9250	7.6	5.81	3.62	
9500	7.3	5.45	3.84	
9750	7.1	5.17	4.06	
10000	6.9	4.87	4.28	

LOSSES: 0.0 HP | 0.02% MAF
 TOTAL ENGINE: 8.6HP | 7.76% MAF



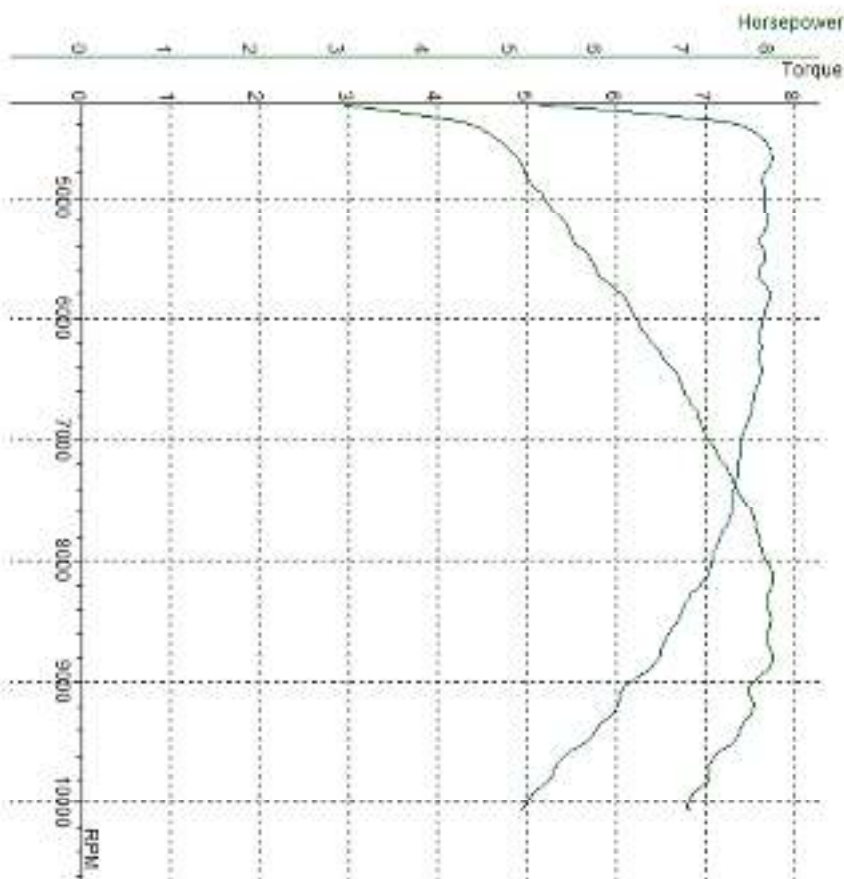
Engine & Motorcycle Exhaust Systems
 All Related Fabrication, Maintenance, Customization, Remanufacture,
 Repair, Modification, Installation

SPORIDINO V3.1
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HUSKY GRAND STD FI T080 | MAX POWER: 8.0 (8.0) / 8795 | MAX TORQUE: 7.75 (7.75) / 4543 | Temp. °C: 30.8 | Humidity %: 78 | Pressure: 1000.0 mbar | KMH: 73.5 | Date/Time: 28.12.2020 11:26:02

DATA FOR TEST: HUSKY GRAND STD FI T080



Comments:
 STD / ETHANOL

RPM	HP	HP@0.95	HP@0.95	T
4250	3.5	3.5	5.80	0.50
4500	4.8	4.8	7.85	0.66
4643	5.0	5.0	7.76	0.74
4750	5.1	5.1	7.70	0.80
5000	5.4	5.4	7.87	0.94
5250	5.7	5.7	7.86	1.10
5500	5.9	5.9	7.85	1.24
5750	6.2	6.2	7.80	1.38
6000	6.4	6.4	7.84	1.52
6250	6.7	6.7	7.82	1.68
6500	6.9	6.9	7.59	1.82
6750	7.1	7.1	7.50	1.98
7000	7.3	7.3	7.40	2.12
7250	7.5	7.5	7.35	2.28
7500	7.7	7.7	7.28	2.42
7750	7.9	7.9	7.19	2.58
8000	8.0	8.0	7.07	2.74
8250	8.0	8.0	6.83	2.92
8500	8.0	8.0	6.66	3.08
8750	8.0	8.0	6.49	3.26
8795	8.0	8.0	6.47	3.28
9000	7.8	7.8	6.11	3.44
9250	7.7	7.7	5.90	3.61
9500	7.5	7.5	5.58	3.84
9750	7.3	7.3	5.29	4.04
10000	7.0	7.0	4.97	4.28

LOSSES: 0.0 HP 0.02%
 TOTAL ENGINE: 8.6HP 7.76%
 0.02%
 7.76%



Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Hemel Hempstead, Herts, SG9 6ND
 Tel: 01494 471111 Fax: 01494 471112

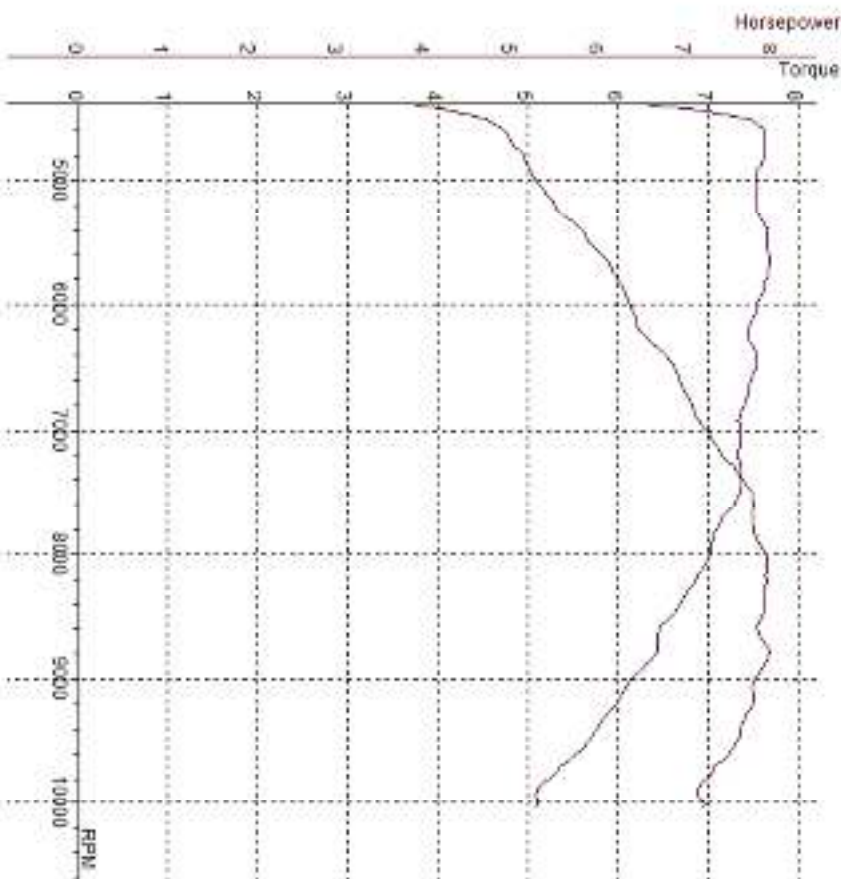
SPORIDINO V3.3
 DYNAMOMETER 80015
 ROLLER INERTIA 1.446

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T081
 MAX POWER: 8.0 (8.0) / 8797
 MAX TORQUE: 7.65 (7.60) / 5543
 Temp. °C: 30.8
 Humidity %: 78
 Pressure: 1000.0 mbar
 KMH: 73.5
 Date/Time: 28/12/2020 11:26:14

DATA FOR TEST: HILLEN GRAND STD FI T081

Comments:
 STD / ETHANOL



RPM	HP	QHP	QV-MPH	T
4250	4.5	6.78	0.52	
4500	4.7	7.47	0.58	
4750	5.1	7.64	0.74	
5000	5.3	7.53	0.86	
5250	5.6	7.57	1.02	
5500	5.9	7.65	1.15	
5750	6.1	7.69	1.24	
6000	6.3	7.66	1.30	
6250	6.4	7.54	1.46	
6500	6.5	7.44	1.60	
6750	6.9	7.53	1.74	
7000	7.0	7.42	1.90	
7250	7.1	7.36	2.05	
7500	7.5	7.35	2.20	
7750	7.8	7.35	2.36	
8000	7.9	7.03	2.68	
8250	7.9	6.80	2.84	
8500	7.9	6.54	3.02	
8750	8.0	6.44	3.20	
9000	8.0	6.43	3.22	
9250	7.8	6.11	3.38	
9500	7.7	5.92	3.56	
9750	7.5	5.65	3.76	
10000	7.3	5.35	4.00	
10000	7.2	5.11	4.20	

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.6HP
 0.02% V-MPH
 7.60% V-MPH



Engine & Motor Vehicle Testing Equipment
 All Related Software, Hardware, Calibration, Accessories
 Sales, Repairs, Maintenance

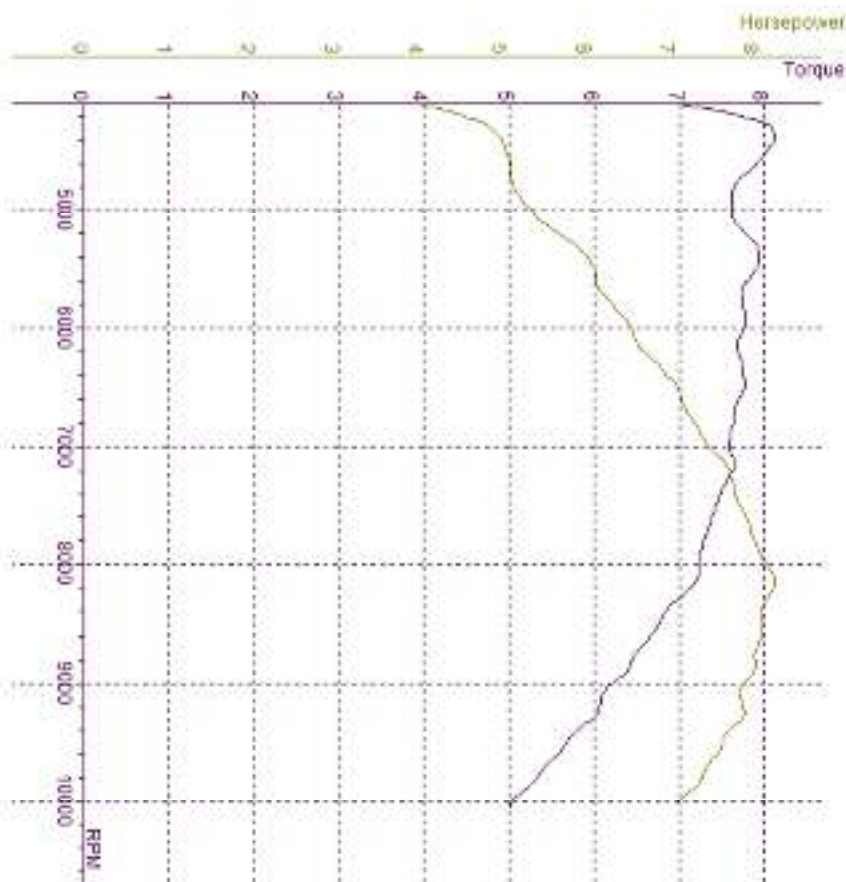
SPORIDINO V3.3
 DYNAMOMETER 80015
 ROLLER INERTIA 1.446

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
HIVEN GRAND STD FI T085	61.13 (61.33)	4362	30.8 °C	77 %	1000.0 mbar	73.7	28.12.2020 11:32:35

DATA FOR TEST HIVEN GRAND STD FI T085

Comments
 ETHANOL / 3.5 Kg/m



RPM	HP	Q (N·M)	T
3750	4.2	7.35	0.50
4000	4.4	7.60	0.54
4250	4.8	8.05	0.60
4500	4.9	8.13	0.64
4750	5.0	8.03	0.72
5000	5.1	7.66	0.88
5250	5.4	7.63	1.02
5500	5.8	7.88	1.16
5750	6.1	7.90	1.30
6000	6.3	7.75	1.44
6250	6.5	7.74	1.60
6500	6.8	7.75	1.74
6750	7.1	7.75	1.88
7000	7.3	7.59	2.16
7250	7.5	7.57	2.32
7500	7.9	7.41	2.48
7750	8.0	7.30	2.62
8000	8.2	7.28	2.78
8250	8.2	7.19	2.86
8500	8.1	7.01	2.94
8750	8.0	6.87	3.28
9000	7.9	6.18	3.46
9250	7.8	6.04	3.64
9500	7.6	5.88	3.84
9750	7.4	5.35	4.06
10000	7.1	5.02	4.28

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.2 HP
 8.13 (8.13) HP



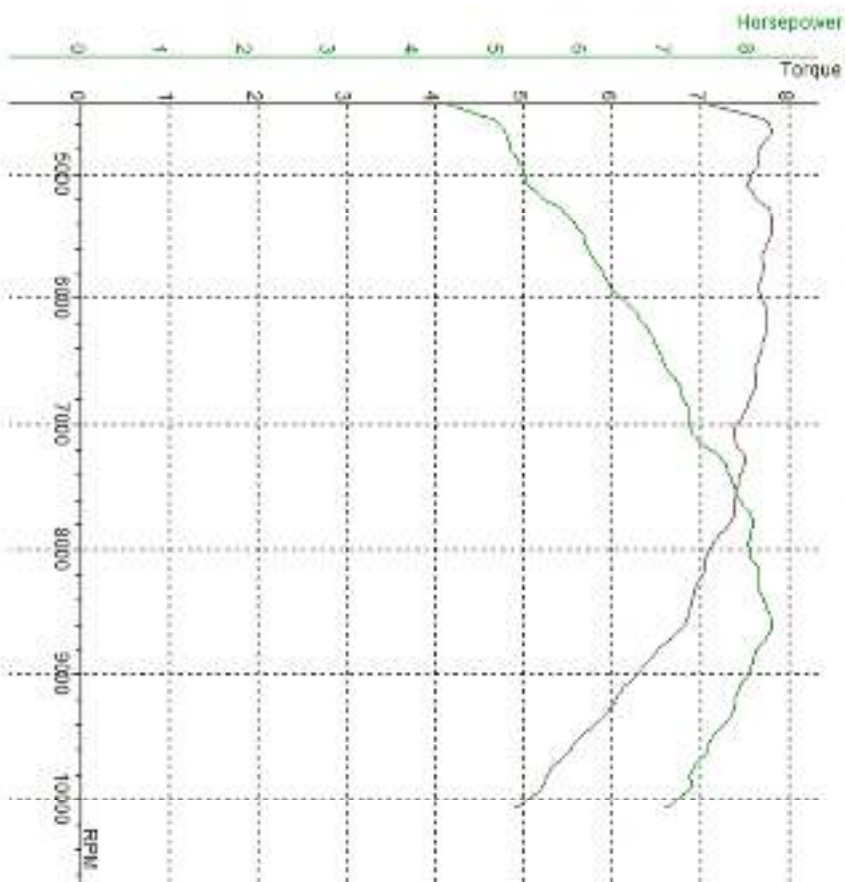
Engine & Motor Vehicle Testing Equipment
 25 Orchard Estate, Marston, Cheltenham, Gloucestershire,
 Glos, Gloucestershire, Gloucestershire

SPORIDINO V3.3
 DYNAMOMETER 80515
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T087 | MAX POWER: 8.8 (12.3) 5415 | MAX TORQUE: 7.83 (7.81) 5376 | Temp. °C: 30.8 | Humidity %: 77 | Pressure: 1000.0 mbar | KMH: 73.7 | Date/Time: 28.12.2020 11:32:48

DATA FOR TEST: HILLEN GRAND STD FI T087



Comments:

ETHANOL V3.5 8gpm

RPM	HP	HP @ 1000	CV @ 1000	T
4250	4.5	7.35	0.52	
4500	4.8	7.35	0.54	
4750	5.1	7.30	0.68	
5000	5.3	7.56	0.84	
5250	5.7	7.76	0.98	
5500	5.9	7.81	1.04	
5750	6.0	7.78	1.12	
6000	6.2	7.70	1.26	
6250	6.3	7.73	1.54	
6500	7.0	7.62	1.70	
6750	7.2	7.58	1.84	
7000	7.3	7.38	2.00	
7250	7.7	7.50	2.14	
7500	7.8	7.30	2.50	
7750	8.0	7.09	2.60	
8000	8.1	6.98	2.76	
8250	8.2	6.86	2.92	
8500	8.2	6.81	3.00	
8750	8.1	6.58	3.10	
9000	8.0	6.27	3.28	
9250	7.8	5.97	3.48	
9500	7.5	5.60	3.68	
9750	7.3	5.31	3.88	
10000	7.1	5.00	4.12	

LOSSES: 0.0 HP 0.02% @ 1000
 TOTAL ENGINE: 8.8 HP 7.81% @ 1000



Engine & Motor Vehicle Testing Equipment
 25 Orchard Side Road, Singapore, Singapore
 Tel: 65 6748 8888, Fax: 65 6748 8889

SPORIDINO V3.3
 DYNAMOMETER 80015
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

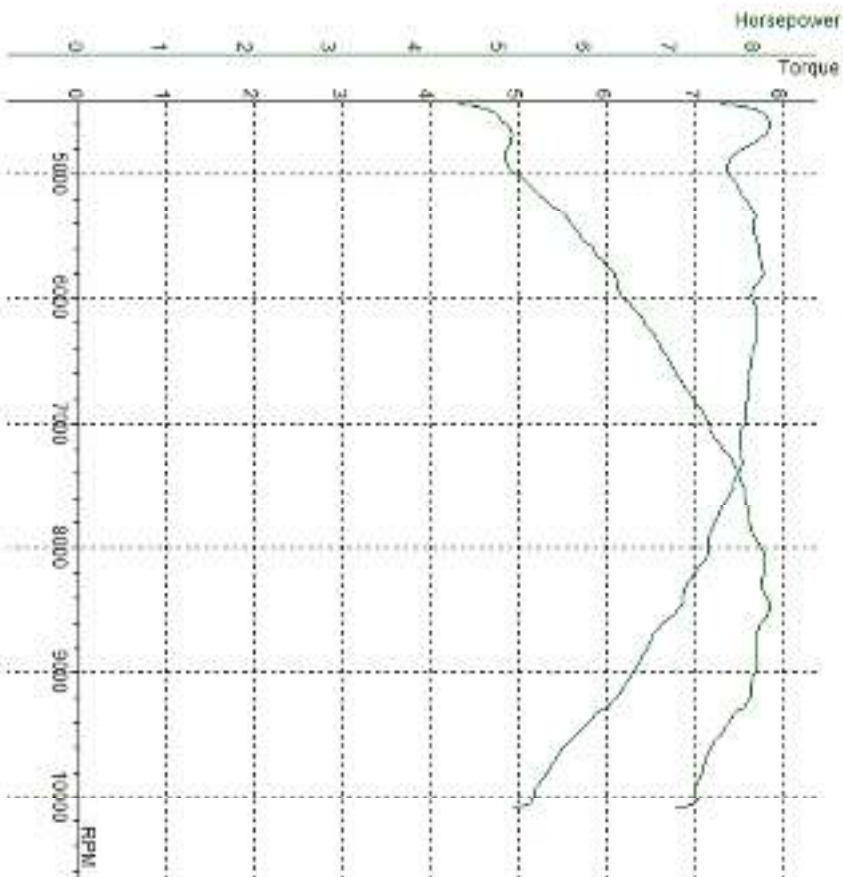
TEST NAME: HINEN GRAND STD FI T088 | MAX POWER: 8.2 (8.2) / 3450 | MAX TORQUE: 7.85 (7.86) / 4626 | Temp. °C: 30.8 | Humidity %: 77.5 | Pressure: 1000.0 mbar | KMH: 73.8 | Date/Time: 28.12.2020 11:33:09

DATA FOR TEST HINEN GRAND STD FI T088

Comments:
 ETHANOL / 3.5 Egan

RPM	HP	HP CORR	CV-MPM	T
4250	4.7	4.7	7.54	0.52
4500	4.9	4.9	7.79	0.56
4626	5.1	5.1	7.86	0.62
4750	5.1	5.1	7.85	0.70
5000	5.2	5.2	7.39	0.84
5250	5.6	5.6	7.64	1.00
5500	6.0	6.0	7.69	1.14
5750	6.3	6.3	7.77	1.28
6000	6.4	6.4	7.65	1.42
6250	6.8	6.8	7.70	1.58
6500	7.0	7.0	7.64	1.72
6750	7.2	7.2	7.60	1.86
7000	7.4	7.4	7.54	2.02
7250	7.7	7.7	7.53	2.16
7500	7.9	7.9	7.42	2.32
7750	8.1	8.1	7.32	2.48
8000	8.1	8.1	7.16	2.62
8250	8.1	8.1	6.94	2.78
8469	8.2	8.2	6.84	2.92
8500	8.1	8.1	6.78	2.96
8750	8.0	8.0	6.47	3.14
9000	8.0	8.0	6.24	3.32
9250	7.9	7.9	6.01	3.50
9500	7.5	7.5	5.61	3.70
9750	7.4	7.4	5.36	3.90
10000	7.3	7.3	5.15	4.14

LOSSES: 0.0 HP 0.02%
 TOTAL ENGINE: 8.2HP 7.84%
 0.02%
 7.84%





Engine & Motor Vehicle Testing Equipment
 25, Riverside Industrial Estate, Birmingham, B37 7YU
 Tel: 0121 717 8000 Fax: 0121 717 8001
 Email: sales@mt-tech.co.uk Website: www.mt-tech.co.uk

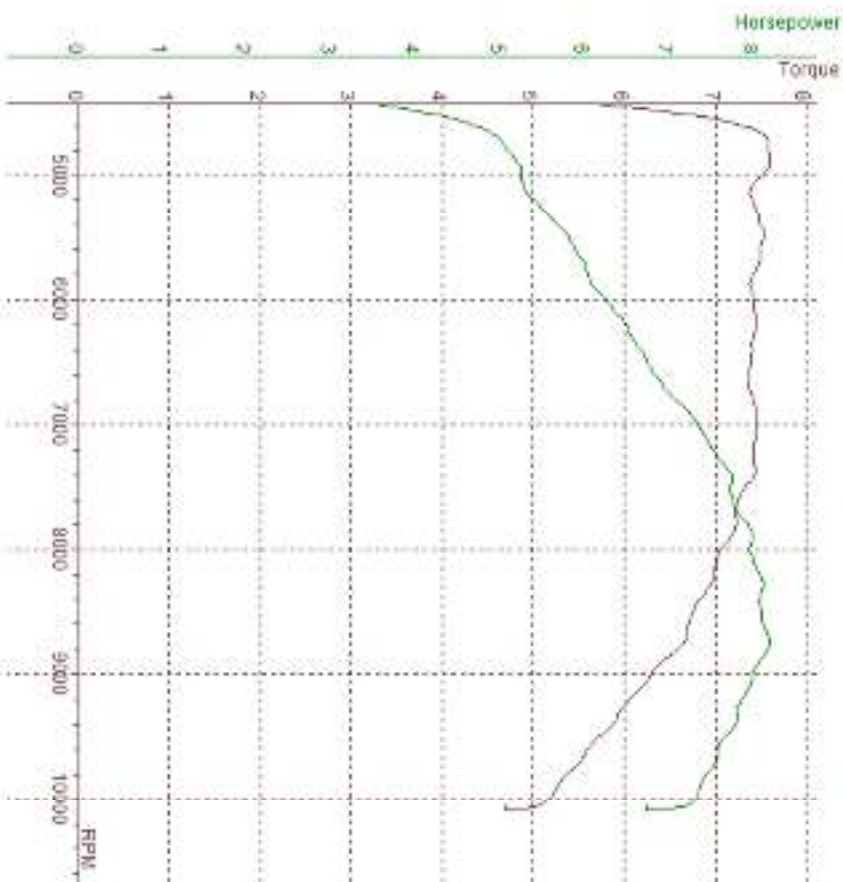
SPORTIVO V3.3
 DYNAMOMETER: 80515
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME: HILLEN GRAND STD FI T093 | MAX POWER: 57.03 (2) 57.92 | MAX TORQUE: 7.60 (7.50) 4.006 | Temp. °C: 30.8 | Humidity %: 77.5 | Pressure: 1000.0 mbar | KMH: 73.8 | Date/Time: 28.12.2020 11:35:22

DATA FOR TEST: HILLEN GRAND STD FI T093

Comments:
 ETHANOL V3.7 Egan



RPM	HP	HP COR	N·M·P·D	T
4250	3.8	6.21	0.52	
4500	4.4	6.87	0.56	
4750	5.1	7.58	0.70	
5000	5.2	7.60	0.78	
5250	5.3	7.51	0.84	
5500	5.5	7.45	1.00	
5750	5.8	7.53	1.14	
6000	6.0	7.44	1.30	
6250	6.3	7.42	1.44	
6500	6.5	7.42	1.60	
6750	6.8	7.38	1.74	
7000	7.1	7.41	1.90	
7250	7.4	7.46	2.04	
7500	7.6	7.42	2.18	
7750	7.7	7.31	2.34	
8000	7.9	7.25	2.50	
8250	8.0	7.07	2.64	
8500	8.1	6.96	2.82	
8750	8.1	6.75	2.98	
9000	8.2	6.65	3.14	
9250	8.2	6.62	3.16	
9500	8.0	6.27	3.54	
9750	7.8	5.95	3.54	
10000	7.7	5.70	3.72	
	7.5	5.45	3.92	
	7.3	5.15	4.16	

LOSSES: 0.0 HP 0.02%
 TOTAL ENGINE: 8.2HP 7.60%
 0.02%
 7.60%



Engine & Motor Vehicle Testing Equipment
 All Related Software, Hardware, Calibration, Accessories
 Sensors, Testbeds, Instruments

SPORIDINO V3.3
 DYNAMOMETER 80813
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

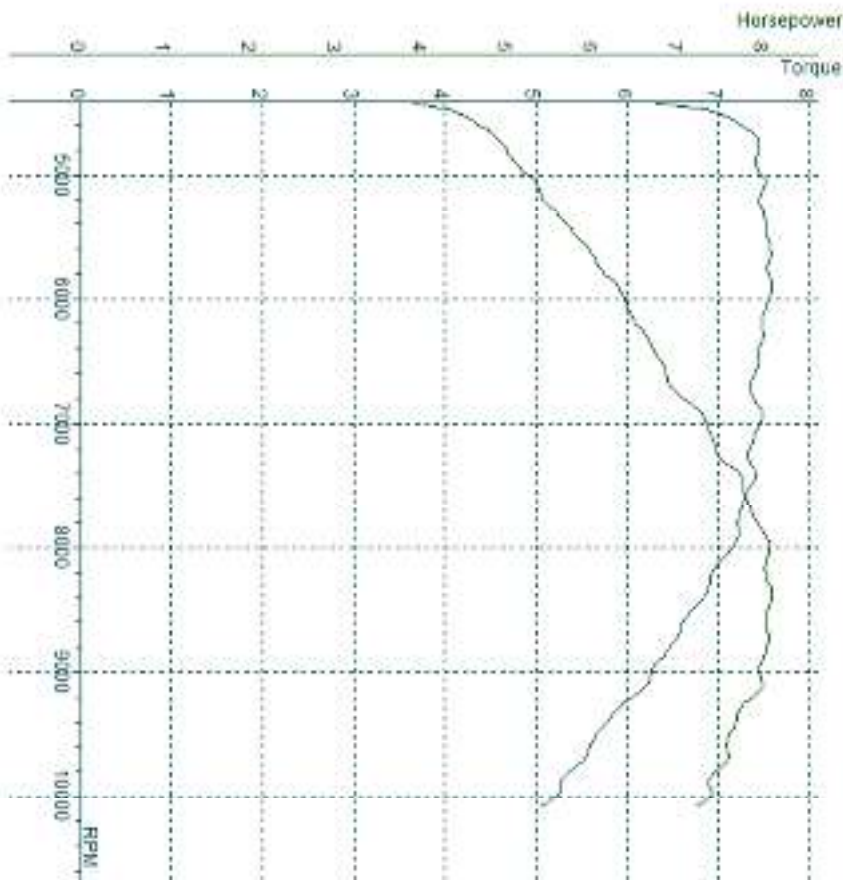
TEST NAME: HILLEN GRAND STD FI T096 | MAX POWER: 81.08 HP | 83.58 | MAX TORQUE: 7.59 (7.59) 5901 | Temp. °C: 30.8 °C | Humidity %: 77 % | Pressure: 1000.0 mbar | KMH: 73.8 | Date/Time: 28.12.2020 11:35:34

DATA FOR TEST: HILLEN GRAND STD FI T096

Comments:
 ETHANOL V3.7 Egan

RPM	HP	HP COR	CV-MPM	T
4250	4.1	6.64	0.52	
4500	4.4	7.04	0.56	
4750	5.0	7.45	0.72	
5000	5.3	7.50	0.86	
5250	5.5	7.47	1.00	
5500	5.8	7.52	1.14	
5750	6.1	7.54	1.30	
6000	6.3	7.49	1.38	
6250	6.4	7.55	1.44	
6500	6.6	7.50	1.60	
6750	6.8	7.44	1.74	
7000	7.0	7.38	1.90	
7250	7.3	7.44	2.04	
7500	7.5	7.32	2.18	
7750	7.8	7.35	2.34	
8000	7.9	7.21	2.50	
8250	8.1	7.14	2.66	
8500	8.0	6.91	2.82	
8750	8.1	6.88	2.88	
9000	8.0	6.87	2.90	
9250	8.0	6.51	3.16	
9500	8.0	6.24	3.36	
9750	7.5	5.91	3.54	
10000	7.5	5.63	3.74	
	7.4	5.43	3.94	
	7.4	5.20	4.16	

LOSSES: 0.0 HP 0.02%
 TOTAL ENGINE: 8.1HP 7.50%
 TOTAL: 8.1HP 7.50%





Engine & Motor Vehicle Testing Equipment
 All Related Software, Hardware, Calibration, Documentation,
 Service, Repairs, Accessories

SPORIDINO V3.3
 DYNAMOMETER 80515
 ROLLER INERTIA 1.445

Displacement Correction
 Correction Factor ISO 1583
 NOTE: Load Cell Included

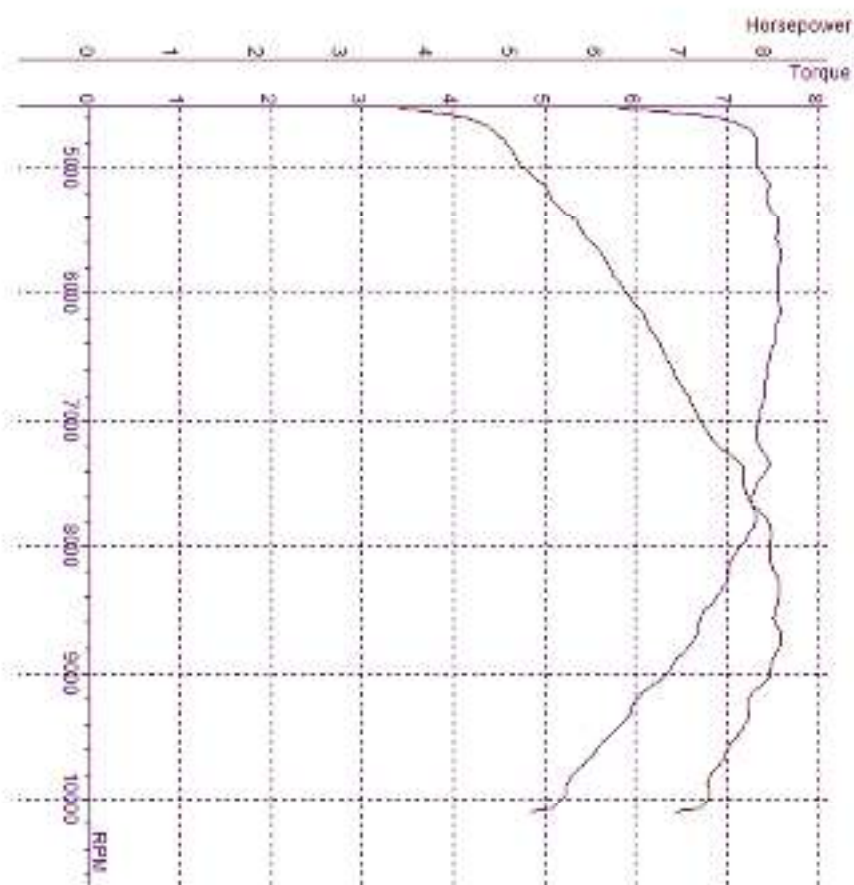
TEST NAME: HIVEN GRAND STD FI 1097
 MAX POWER: 8.2 (8.2) / 8740
 MAX TORQUE: 7.59 (7.59) / 5697
 Temp. °C: 30.8
 Humidity %: 77
 Pressure: 1000.0 mbar
 KMH: 73.9
 Date/Time: 28.12.2020 11:35:45

DATA FOR TEST HIVEN GRAND STD FI 1097

Comments:
 ETHANOL / 3.7 Egan

RPM	HP	DRQ (N·M·s)	T
4250	4.0	6.37	0.52
4500	4.3	6.68	0.54
4750	4.9	7.33	0.65
5000	5.2	7.36	0.80
5250	5.5	7.44	0.94
5500	5.8	7.55	1.10
5697	6.1	7.69	1.20
5750	6.1	7.57	1.24
6000	6.4	7.55	1.38
6250	6.6	7.52	1.54
6500	6.8	7.46	1.68
6750	7.1	7.41	1.84
7000	7.3	7.34	2.00
7250	7.5	7.39	2.12
7500	7.7	7.32	2.28
7750	8.0	7.31	2.44
8000	8.0	7.13	2.60
8250	8.1	6.99	2.76
8500	8.1	6.76	2.92
8740	8.2	6.64	3.08
8750	8.2	6.61	3.10
9000	8.0	6.32	3.28
9250	7.8	5.95	3.46
9500	7.6	5.70	3.66
9750	7.4	5.35	3.88
10000	7.3	5.16	4.10

LOSSES: 0.0 HP 0.02%
 TOTAL ENGINE: 8.2HP 7.59%
 0.02%
 7.59%





Dyna Center & Motorcycle Based Support
 J.L. Hightower, Sr. Technician, Motorcycle Performance, Motorcycle Support,
 Service, Vehicle Repair, Insurance

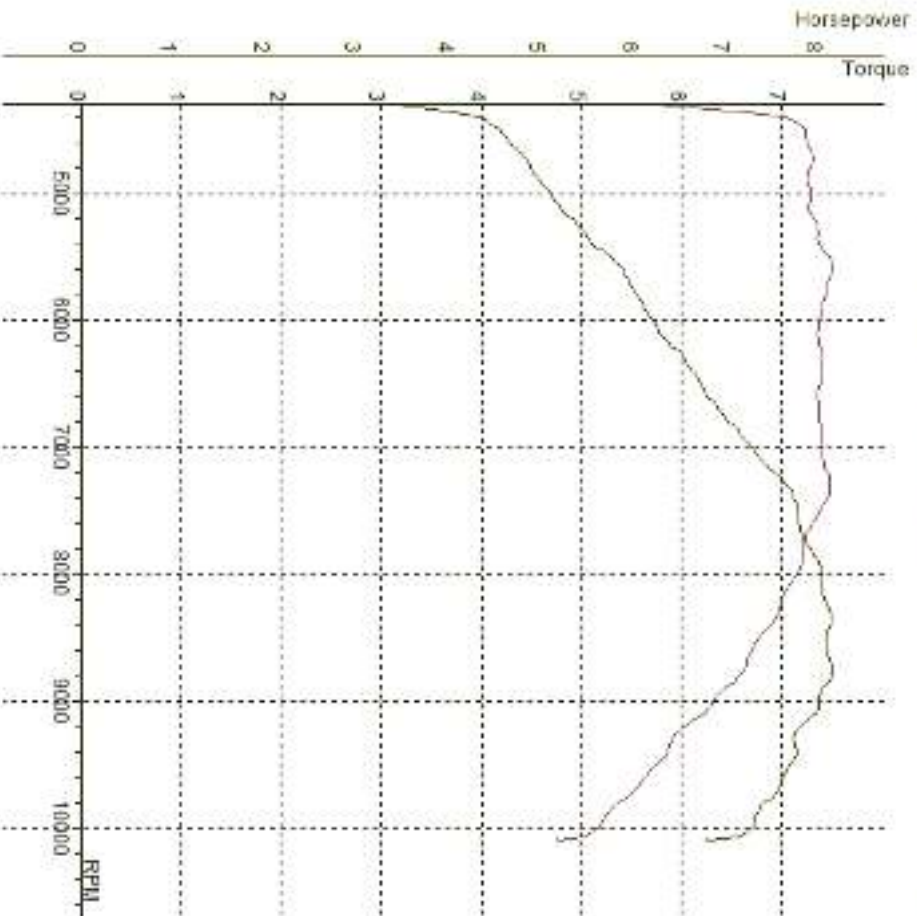
SPORTVINO V3.3
DYNAMOMETER: SD125
ROLLER INERTIA: 1.445

Displacement Correction:
 Correction Factor: ISO 1583
 NOTE: Load Cell Included

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	EXH	Date/Time
HUBEN GRAND STD FT1102	9.2 (8.7) 8749	7.5 (7.5) 5552	30.8 °C	77 %	1000.0 mBar	73.8	28/12/2020 11:37:36

DATA FOR TEST: HUBEN GRAND STD FT1102

Comments:
 ETHANOL/4 Kg/m



RPM	HP	QHP	N°/M²/AD	T
4250	3.8	6.30	0.57	
4500	4.6	7.24	0.64	
4750	4.9	7.31	0.78	
5000	5.1	7.29	0.94	
5250	5.4	7.35	1.08	
5500	5.8	7.40	1.24	
5682	5.9	7.61	1.26	
5750	6.0	7.44	1.38	
6000	6.2	7.37	1.54	
6250	6.5	7.40	1.70	
6500	6.7	7.37	1.84	
6750	7.0	7.36	1.98	
7000	7.3	7.40	2.14	
7250	7.6	7.48	2.28	
7500	7.8	7.36	2.44	
7750	7.9	7.22	2.60	
8000	8.1	7.15	2.74	
8250	8.1	6.97	2.92	
8500	8.1	6.75	3.08	
8749	8.2	6.62	3.24	
8750	8.2	6.60	3.26	
9000	8.0	6.31	3.42	
9250	7.7	5.92	3.62	
9500	7.7	5.72	3.82	
9750	7.5	5.45	4.02	
10000	7.3	5.15	4.24	

LOSSES: 0.0 HP 0.0N°/M²/AD
 TOTAL ENGINE: 8.2HP 7.51N°/M²/AD



Engine Test & Heavy Duty Business Support
 B. Pratiwi Lubrizol, Semarang, Indonesia
 R. Pratiwi, Yogyakarta, Indonesia

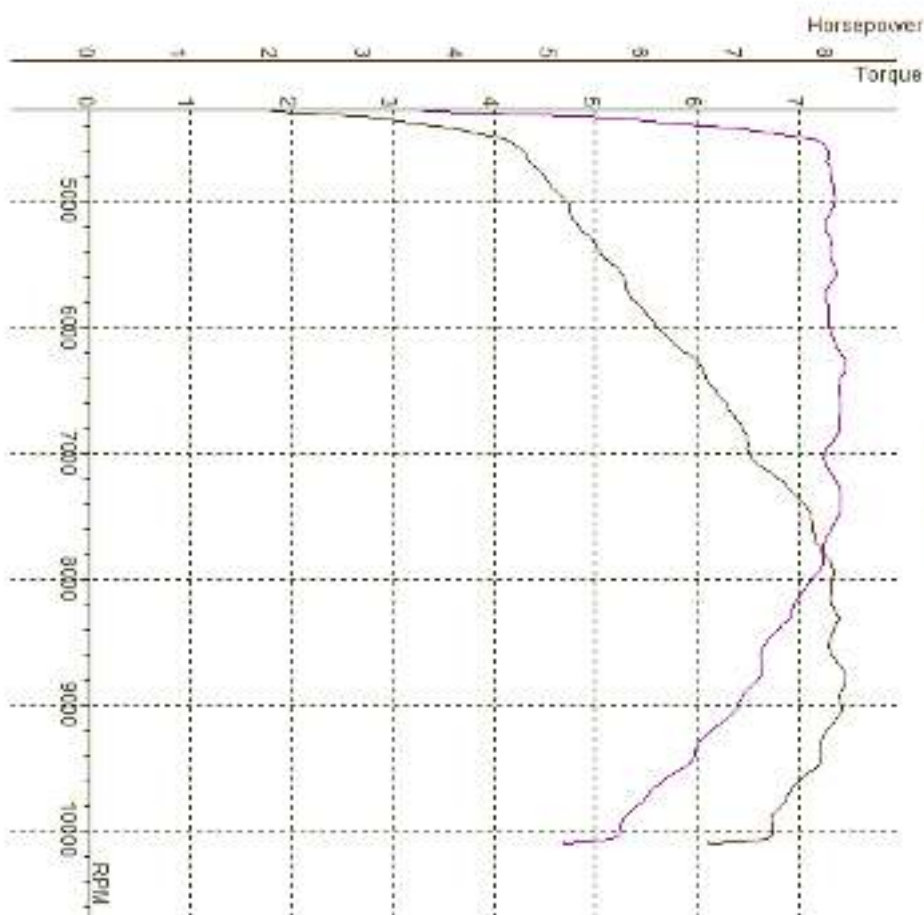
SPORIDYNO V3.3
 DYNAMOMETER: ED125
 ROLLER INERTIA: 1.445

Displacement Correction
 Correction Factor: 880.1585
 NOTE: Load Cell Included

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	MAH	Date/Time
HTEN GRAND STD FI T100	8.2 (8.2) 5793	7.47 (7.47) 6291	30.8 °C	77 %	1000.0 mbar	73.8	28.12.2020 11:37:12

DATA FOR TEST: HTEN GRAND STD FI T100

Comments
 ETHANOL / 4 Kg/m



RPM	HP	DMO (N·M·AD)	1
4350	2.6	4.35	0.52
4500	4.5	7.14	0.64
4750	4.9	7.32	0.80
5000	5.2	7.35	0.96
5250	5.4	7.31	1.10
5500	5.7	7.37	1.26
5750	5.9	7.26	1.40
6000	6.2	7.32	1.56
6250	6.6	7.46	1.70
6500	6.6	7.47	1.72
6750	6.8	7.41	1.86
7000	7.0	7.40	2.00
7250	7.1	7.25	2.14
7500	7.6	7.40	2.30
7750	7.8	7.38	2.46
8000	7.9	7.24	2.62
8250	8.0	7.13	2.76
8500	8.1	6.94	2.92
8750	8.0	6.66	3.10
9000	8.2	6.61	3.28
9250	8.2	6.61	3.28
9500	8.1	6.39	3.46
9750	7.9	6.05	3.64
10000	7.8	5.80	3.84
	7.5	5.45	4.04
	7.4	5.24	4.24

LOSS: 0.0 HP
 TOTAL ENGINE: 8.2HP
 0.0N·M·AD
 7.4N·M·AD